

IMAGE DISPLAY APPARATUS

BACKGROUND OF THE INVENTION

This application is a Continuation of 10/126,270, filed 4/18/02 and now Patent No. 6,637,889.

1. FIELD OF THE INVENTION

[0001] The present invention relates to projection type image display apparatus for color separating illumination light to illuminate a plurality of image display devices with the separated light components and combining image light components emanating from these image display devices for projective display.

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2. DESCRIPTION OF THE RELATED ART

[0002] In recent years, a projection type image display apparatus with an improved brightness and a compact size is needed.

[0003] Fig. 4 shows the configuration of a conventional projection type image display apparatus. In Fig. 4, white illumination light emitted from an illumination light source 101 is reflected by a reflector 102, passes through a fly eye lens A103, further reflected by a mirror M101, passes through a fly eye lens B104, a light polarization converting device 105 and a condenser lens 106, and then incident on a dichroic mirror DM101.

[0004] In general, as the illumination light source, a halogen lamp, a metal halide lamp, an ultra-high pressure